

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

---

Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F.  
Larsen

---

January 1936

## Test 268: McCormick-Deering Model WK-40 1600 r. p. m.

Tractor Museum

University of Nebraska-Lincoln, [TractorMuseumArchives@unl.edu](mailto:TractorMuseumArchives@unl.edu)

Follow this and additional works at: <https://digitalcommons.unl.edu/tractormuseumlit>



Part of the [Applied Mechanics Commons](#)

---

Museum, Tractor, "Test 268: McCormick-Deering Model WK-40 1600 r. p. m." (1936). *Nebraska Tractor Tests*. 871.

<https://digitalcommons.unl.edu/tractormuseumlit/871>

This Article is brought to you for free and open access by the Tractor Test and Power Museum, The Lester F. Larsen at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Nebraska Tractor Tests by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.



UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT  
 AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 268

BRIEF SPECIFICATIONS

MOTOR: Make Own Serial No. WTM 566 K Type 6 cylinder, vertical  
 Head I Mounting Crankshaft lengthwise  
 Bore and stroke: 3 3/4" x 4 1/2" Rated R.P.M. 1600  
 Port Diam. Valves: Inlet 1 5/8" Exhaust 1 1/2"  
 Belt pulley: Diam. 16 3/4" Face 9" R.P.M. 599  
 Magneto Own Model F6  
 Carburetor Zenith Model 50-AY12 Size 1 1/4"  
 Governor Own Type Centrifugal  
 Air Cleaner Own Type Oil-washed, wire-filter  
 Lubrication Pressure

CHASSIS: Type 4 wheels, 2 drivers Serial No. WKCl690 Drive Enclosed gear  
 Clutch Own Type Single-plate, dry Operated by Foot pedal  
 Advertised speeds, miles per hour: First 2.4 Second 3.1  
 Third 3.6 Reverse 2.2  
 Drive wheels: Diam. 50" Face 12"  
 Lugs: Type Spade No. per wheel 32 Size 5" high x 3 1/2" face  
 Extension rims: Width 6" Lugs per rim 16  
 Size lugs 5" high x 3 1/2" face  
 Seat Pressed steel

Total weight as tested (with operator) 7600 pounds.

FUEL AND OIL:

Fuel Distillate Weight per gallon 6.91 pounds.

Oil S.A.E. Viscosity No. 40

Total oil to motor 2.744 gallons

Total drained from motor 3.211 gallons

Total time motor was operated 50 hours

The oil was drained to the side valve after each 10 hours of operation and 1 quart of new oil was added. The oil was completely drained at the end of the test.

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT  
AGRICULTURAL COLLEGE, LINCOLNCopy of Report of Official Tractor Test No. 268REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

REMARKS

All results shown on page 1 of this report were determined from observed data and without allowances, additions, or deductions. Tests B and F were made with carburetor set for 100% maximum horsepower and these figures were used in determining the ratings recommended by A.S.A.E. and S.A.E. tractor rating codes. Tests C, D, E, G and H were made with an operating setting of the carburetor (selected by the manufacturer) of 95.0% of maximum horsepower.

Observed maximum horsepower (tests B &amp; F) Drawbar 31.79 Belt 45.69

Sea level (calculated) maximum horsepower Drawbar 34.46 Belt 48.07  
(Based on 60° F. and 29.92" Hg.)Highest permissible horsepower ratings Drawbar 25.85 Belt 40.86  
(As recommended by A.S.A.E. and S.A.E.  
codes)

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 268.

Carlton L. Zink  
Engineer-in-chargeE. E. BrackettC. W. SmithL. W. Hurlbut  
Board of Tractor Test Engineers